

Illinois Office of Health Information Technology



ILHIE Update

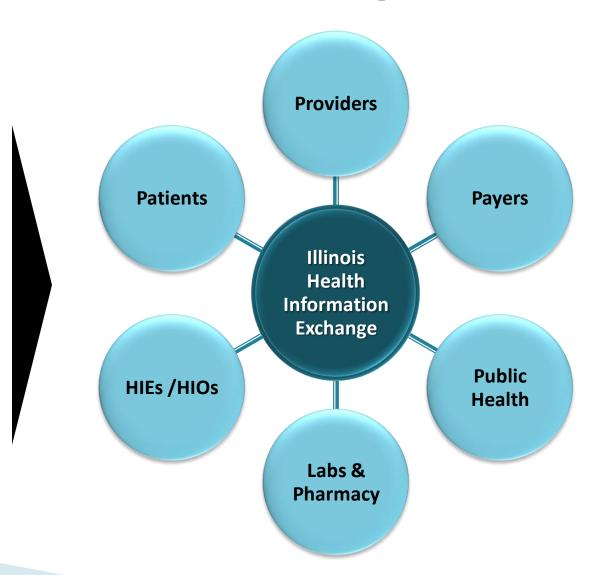
July 17, 2012
Laura Zaremba
OHIT Director and ILHIE Acting Executive Director

Agenda

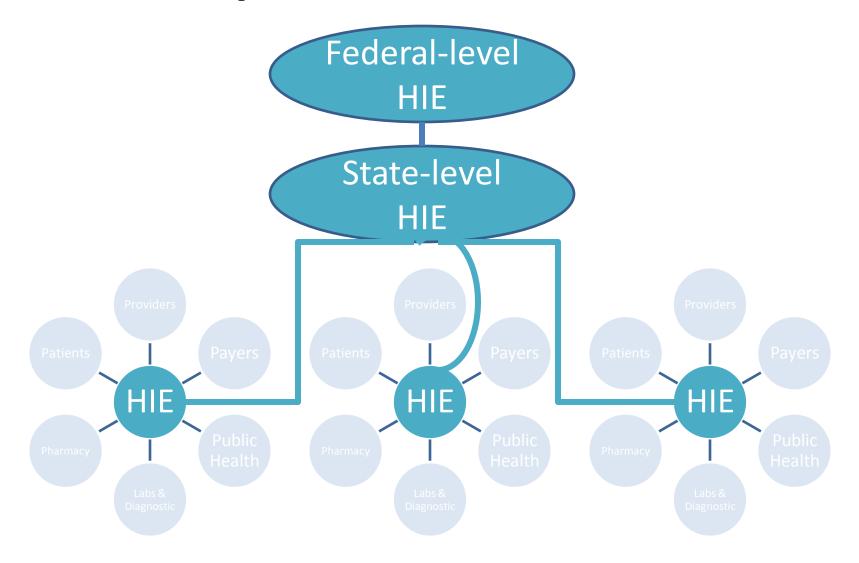
- Overview of the architecture and implementation status of the ILHIE
- Overview of the patient data privacy & security implications of HIE networks

HIE network hub concept

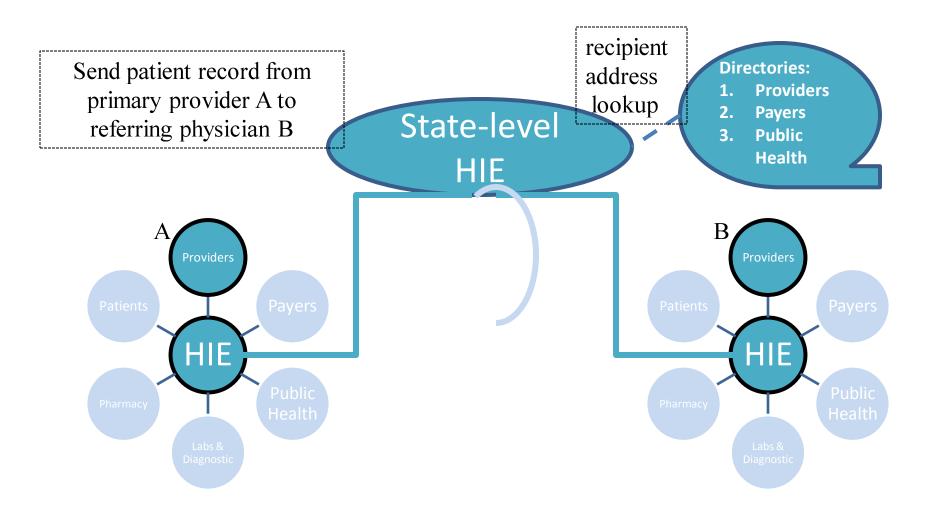
Secure, effective, and efficient exchange of health information in compliance with state and federal standards, laws, and regulations



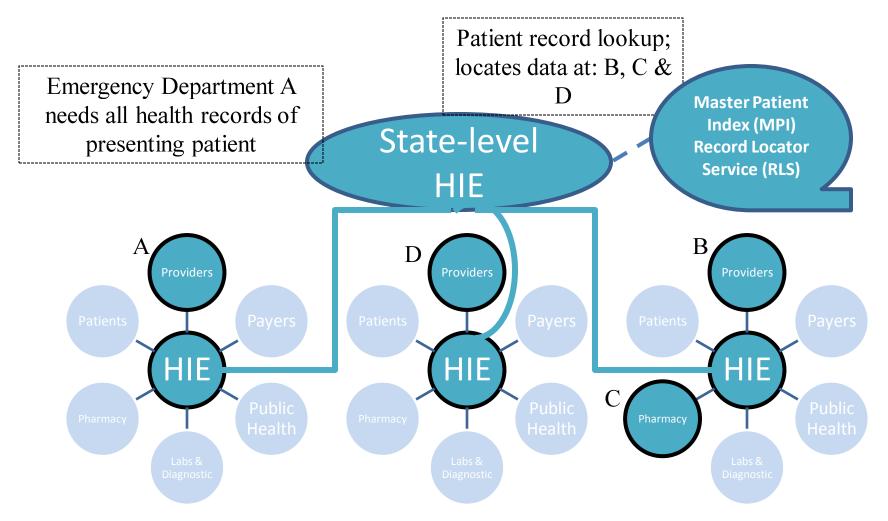
HIE concept: federated networks



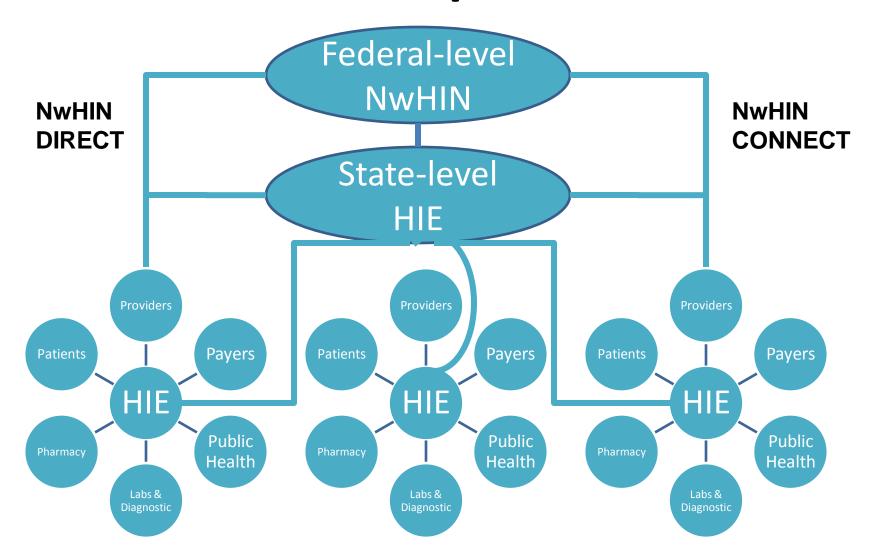
HIE service: Directed Message (Uni-directional) Exchange ("push")



HIE service: Aggregated Data (Bidirectional) Query-Response ("pull")



HIE network concept has evolved

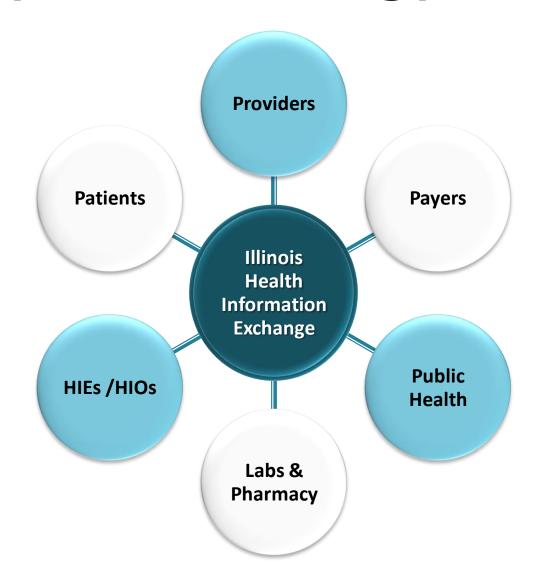


ILHIE Development Strategy

Phase 1: Direct
Messaging
(uni-directional; push)

Phase 2: Aggregated
Data (bi-directional;
query-response; pull)

Focus:
Meaningful Use
Transitions of care
Care coordination



ILHIE Phase I: Direct Messaging

- ILHIE launched Direct secure messaging service Dec. 2011
 - Similar to using e-mail
 - Encrypted message transport to other enrolled Direct users
 - Enrollment requires user identity verification
 - No cost to Illinois providers through 2012



Direct Messaging - Use Cases

Designed to address multiple use cases

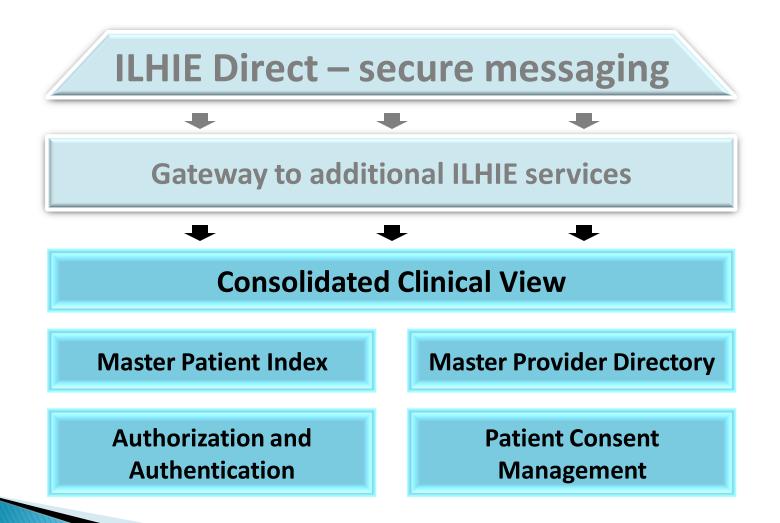
- Behavioral Health Care Integration protected information is sent securely under existing consent laws and policies
- Emergency Department Alerts send alerts to physicians when their at-risk patients are admitted through the ED
- Specialist Referral Coordination transmit relevant and timely info about the patient
- Transitions of Care send patient care summaries during care transitions

ILHIE Direct Participants

P Denotes each
ILHIE
Direct address
account location,
not individual
contacts.



Gateway to more robust HIE



ILHIE Phase 2: Aggregated queryresponse (bidirectional exchange)

In 2011 ILHIE retained a technology vendor, InterSystems Corporation, to provide a robust "Software-As-A-Service" HIE solution

Core components:

- Master Patient Index/Record Locator Service
- Data aggregation engine
- Secure data transport/display
- Directories: Providers, Public Health Authorities

Use cases:

- 1. Emergency room "pull" of aggregated PHI
- 2. Clinical specialist referrals (using Provider Directory)
- 3. Public health reporting via special node
- 4. Provider incentive payment reporting

Phase 2 implementation status

- In test phase for bidirectional exchange
- Testing Master Patient Index,
- Populating Master Provider Directory
- Will begin testing Public Health Node connectivity (late 2012)
- Current on-boarding pipeline
- Chicago and southern Illinois-based FQHCs
- Hospitals in multiple regions
- Regional HIE in central Illinois
- Estimate 2 to 6 month test period

Privacy & Security/Patient Consent Management implications for HIE

Sharing of Clinical Data Is Key

Health care ecosphere is complex

Successful treatment of a single patient involves multiple parties

- Clinical treatment is delegated among multiple specialists
- Location of clinical treatment is distributed among different types of facilities during patient's course of treatment
- Payment for treatment from multiple sources
- Management of multiple parties and processes requires evaluation systems which measure and assess results



Accommodation of multiple interests

- Multiple parties contribute to the creation of patient data and multiple parties have interests in the use and sharing of such patient data, including: patients; providers; payers; public health authorities
- Accommodation of these multiple interest is an issue of policy and politics, less an issue of technology
 - Importance of diverse stakeholder input to ILHIE Authority
 - Focal point of health care policy: the patient
- Patients have concerns regarding potential uses of health care data, e.g. adverse insurance coverage determinations or employment decisions



PHI "Misuse" Laws & "Gatekeeper" Laws

 Addressing patient concerns regarding potential "misuse" of patient health data – 2 methods of legal protection:

 "misuse" laws – restricting use of PHI, e.g. by insurance companies and employers

 "gatekeeper" laws – restricting initial release of data, principally by requiring patient consent for a release



Old Laws > < New Technologies

- Most patient PHI privacy laws fashioned prior to the digital (EHR/HIE) revolution
 - Applied generally to point-to-point (unilateral directed exchange), usually involving a single point of release, a single data custodian, and a single recipient
- Today's challenge: how to take advantage of new HIT technologies while accommodating stakeholder interests affected by the new technologies?
 - Today's aggregated PHI query-response (bilateral exchange) HIEs involve multiple points of release, multiple data custodians, multiple recipients - not all known to all parties at the time of the data release

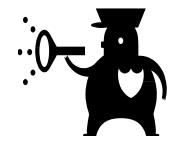
HIE operational criteria: completeness & prompt delivery

For HIE to facilitate patient treatment:

- providers desire access to complete patient record
- · data needs to be delivered on demand

With regard to HIE data flows:

 "misuse" laws - generally involve data use audits after data is released for use



"gatekeeper" laws - generally require action by custodian of data; potentially impacts both "completeness" and "prompt delivery" of data for use



Specially-protected PHI

- "Gatekeeper" laws generally protect patient health data considered "highly confidential"
 - Mental health; psychotherapy notes
 - Substance abuse
 - HIV/AIDS
 - Genetic Testing



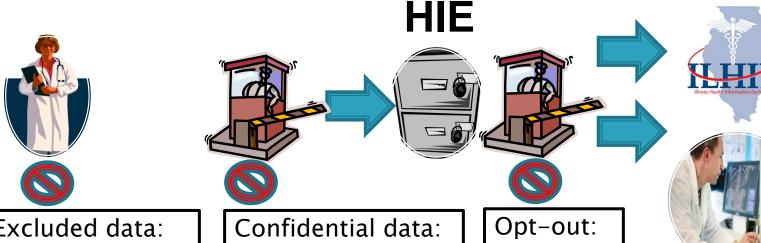
IL mental health confidentiality law (MHDDCA)

- MHDDCA requires patient consent with considerable specificity for release of data
 - Prohibits "blanket consent"
 - Prohibits "advance consent"
 - Durational limit on consent
- MHDDCA application unclear and arguably restricts data aggregation query-response HIE to disclose data without a new consent at the time of each data release
 - Future data recipients not known (at data creation)
 - Date of future data release not known

MetroChicago-HIE data filters

MetroChicago-HIE data filters

"Excluded data": mental health; substance abuse "Highly Confidential data": HIV/AIDS; genetic testing



Excluded data: Mental health; Substance abuse

HIV/AIDs; Genetic testing All data

MetroChicago-HIE data filters

- Consequences:
 - All free text data is suppressed, for all patients
 - All patients with any mental health data trigger are excluded
- Filtering of data by RHIO intermediaries has potentially adverse effect upon ILHIE access to patient data